



Figure 1 displays 15 histograms, labeled x_0 through x_{14} , showing the distribution of the number of non-zero elements in the vector x_k . The x-axis for each histogram is labeled x_k and ranges from 0 to 10. The y-axis is labeled 'count' and ranges from 0 to 10. The distributions are roughly bell-shaped and centered around 5, with some variation in the tails.